By the present amendment, claims 1-5 have been amended to obviate the

examiner's objections thereto and/or to further clarify the concepts of the present invention.

More particularly, the noted claims have been amended to recite that the wafer used in the

subject methods is a semiconductor wafer.

It is submitted that these amendments to the claims are helpful in distinguishing the

subject claims over the cited prior art and do not raise new issues which would require

further consideration and/or search. In addition, it is submitted that such amendments

place the application in better form for appeal by materially reducing or simplifying the

issues for appeal. Furthermore, no additional claims are presented without cancelling a

corresponding number of finally rejected claims. In view of the above, it is submitted that

entry of the above amendments is in order and such is respectfully requested.

In the Office Action, independent claims 1 and 2 again were rejected under 35

U.S.C. §103(a) as being unpatentable over the patent to Morgan et al in view of the patents

to Glenn et al and Corbett. In addition, independent claim 4 was again rejected under 35

U.S.C. §103(a) as being unpatentable over the patents to Glenn et al and Corbett and

dependent claim 5 was rejected under 35 U.S.C. §103(a) as being unpatentable over the

patents to Morgan et al, Glenn et al and Corbett.

-6-

Serial No.: 09/686,958 OA dated September 3, 2003

Amdt. dated December 3, 2003

In making the initial rejection, it was asserted that the cited Morgan et al patent

teaches the method of manufacturing a wafer level semiconductor device as claimed

except for (1) the first and second markings being at the rear surface of the wafer and for

(2) sealing the front surface of the wafer with a resin material. The patent to Corbett was

then asserted to supply the teaching deficiency with respect to the former (1) and the

patent to Glenn et al was asserted to supply the teaching deficiency with respect to the

latter (2). Reconsideration of these rejections in view of the following comments is

respectfully requested.

It is submitted that the patents to Morgan et al, Glenn et al and Corbett, whether

taken singly or in combination, do not teach or suggest the subject matter defined by

claims 1, 2, 4 and 5 as amended herein. More particularly with respect to independent

claims 1 and 2, it is submitted that the Glenn et al patent, among other things, does not

supply the noted teaching deficiency of the Morgan et al patent. With respect to claim 4,

it is submitted that the Glenn et al patent does not teach that which was asserted in the

Action.

Among other things, it was asserted that the Glenn et al patent teaches sealing the

front surface of a wafer with a resin material. It is submitted that such an assertion is not

accurate. The "wafer" as allegedly taught by the Glenn et al patent is not a semiconductor

wafer, but rather is an interposer substrate on which a plurality of semiconductor chips are

-7-

Serial No.: 09/686,958 OA dated September 3, 2003

Amdt. dated December 3, 2003

mounted. The patent to Glenn et al does not disclose sealing a front surface of a

semiconductor wafer, but rather discloses sealing a substrate 13 as is specifically shown

in Fig. 3A thereof. As is defined on lines 55-64 of column 2 of the Glenn et al patent, the

substrate 12 is not a semiconductor wafer, but rather is a ceramic or a passivated metal

substrate. (The Glenn et al patent apparently erroneously used both the numerals 12 and

13 in describing the substrate and in using numeral 12 to also describe the section of the

substrate).

Independent claims 1 and 2 have been amended herein to clarify this important

distinction by specifically reciting that the "wafer" is a "semiconductor wafer." It is therefore

submitted that the Glenn et al patent does not supply the noted teaching deficiency of the

Morgan et al patent. It further is submitted that the Glenn et al patent is not in the same

field of endeavor as the Morgan et al patent as was asserted in the Action and therefore

one of ordinary skill in the art would not be led to combine their respective teachings.

It is further submitted that the Corbett patent, among other things, also does not

supply the noted teaching deficiency of the Morgan et al and Glenn et al patents with

respect to the above. Therefore, it is submitted that one of ordinary skill in the art also

would not achieve the presently claimed invention from the respective teachings of the

Morgan et al, Glenn et al and the Corbett patents.

-8-

Regarding the subject matter of claims 4 and 5, it was asserted that the Glenn et

al patent teaches sealing the front surface of a substrate with encapsulant layer 42 and this

substrate is consistent with applicant's wafer. As above, it is to be noted that the "wafer"

as allegedly taught by the Glenn et al patent is not a semiconductor wafer, but rather is an

interposer substrate on which a plurality of semiconductor chips are mounted. The patent

to Glenn et al does not disclose sealing a front surface of a semiconductor wafer, but

rather discloses sealing a substrate 13 as is specifically shown in Fig. 3A thereof. Further,

as is disclosed on lines 55-64 of column 2 of the Glenn et all patent, this substrate is not

a semiconductor wafer.

Claims 4 and 5 also have been amended herein to clarify this important distinction

by specifically reciting that the "wafer" is a "semiconductor wafer." It is therefore submitted

that the Glenn et al patent does not teach that which is being claimed and further that the

Corbett patent does not supply these teaching deficiencies with respect to the features

noted above.

-9-

Serial No.: 09/686,958 OA dated September 3, 2003

Amdt. dated December 3, 2003

For the reasons stated above, withdrawal of the rejections under 35 U.S.C. §103(a)

and allowance of claims 1, 2, 4 and 5 over the cited patents are respectfully requested.

Further, dependent claim 3 was rejected under 35 U.S.C. §103(a) as being

unpatentable over the same patents to Morgan et al, Glenn et al and Corbett as applied

in the previous rejection in view of the patent to Ohgiyama. Reconsideration of this

rejection in view of the following comments is respectfully requested.

The above remarks relative to the collective teaching deficiencies of the patents to

Morgan et al, Glenn et al and Corbett are reiterated with regard to this rejection. It is

submitted that the cited patent to Ohgiyama does not supply these teaching deficiencies

with respect to independent claims 1 and 2 and thus does not render obvious the subject

matter of dependent claim 3.

For the reasons stated above, withdrawal of the rejection under 35 U.S.C. §103(a)

and allowance of claim 3 over the cited patents are respectfully requested.

In view of the foregoing, it is submitted that the subject application is now in

condition for allowance and early notice to that effect is earnestly solicited.

-10-

Serial No.: 09/686,958 OA dated September 3, 2003 Amdt. dated December 3, 2003

In the event this paper is not timely filed, the undersigned hereby petitions for an appropriate extension of time. The fee for this extension may be charged to Deposit Account No. 01-2340, along with any other additional fees which may be required with respect to this paper.

Respectfully submitted,

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